

MODIS IOT Weekly Report

Mission Operations Days: 2000/127 to 2000/133

May 5, 2000 20:00:00 GMT to May 12, 2000 20:00:00 GMT

Terra Spacecraft and MODIS Instrument Status:

Terra (AM-1) is in Normal Mode

MODIS is in Science Mode

MODIS has no known Anomalies

Blackbody	A On; B Off	Nominal
Calibration Electronics	A On; B Off	Nominal
Control Processor	A On; B Off	Nominal
Door: Nadir	Unlatched, open	Nominal
Space View	Unlatched, open	Nominal
Solar Diffuser	Unlatched, closed	Nominal
FDDI Formatter	A On; B off	Nominal
FIFO Memory	1 & 2 On; 3 & 4 Off	Nominal
Format Processor	A On; B off	Nominal
PC FPA	A On	Nominal
Power Supply: 1	On	Nominal
2	Off	Nominal
PV FPAs: VIS	A On	Nominal
NIR	A On	Nominal
SMIR	A On	Nominal
LWIR	A On	Nominal
Radiative Cooler:		
Outgas Heaters	Off	Nominal
LWIR FPA Heater	On	Nominal
SMIR FPA Heater	Off	Nominal
Scan Assembly	A On; B off	Nominal
SDSM	Off	Nominal
SRCA	Off	Nominal
Survival Heaters: PS1	Enabled	Nominal
PS2	Enabled	Nominal
Timing Generator	A On; B Off	Nominal
Flight Software	Rev BD	Nominal
Inhibit Ids Set	None	Nominal
TMONs enabled	66,67	Nominal

This Week's Completed MODIS Activities:

Friday, May 5, 2000

126/22:53:49 -- 23:20:26 ATC OA25: 1W Spatial (position 0)

126/23:30:52 -- 23:57:29 ATC OA25: 1W Spatial (position 3)

Saturday, May 6, 2000

127/00:07:55 -- 00:34:32 ATC OA25: 1W Spatial (position 6)
127/00:45:03 -- 01:11:40 ATC OA25: 1W Spatial (position 1)
127/01:22:06 -- 01:48:43 ATC OA25: 1W Spatial (position 4)
127/01:59:09 -- 02:25:46 ATC OA25: 1W Spatial (position 7)
127/02:36:17 -- 03:02:54 ATC OA25: 1W Spatial (position 2)
127/03:13:20 -- 03:39:57 ATC OA25: 1W Spatial (position 5)

Sunday, May 7, 2000

None

Monday, May 8, 2000

129/12:00:00 ATC Blackbody to 270K
129/16:10:19 - 16:43:52 ATC OA19: SRCA Full Radiometric

Tuesday, May 9, 2000

130/00:24:41 - 02:19:28 ATC OA21: SRCA 1W Radiometric Continuous w/ radiance feedback
130/06:00:00 ATC Blackbody to 280K
130/10:00:00 ATC Blackbody to 285K
130/12:00:00 ATC Blackbody to 290K
130/14:00?? Real-time Set Blackbody duty cycle to FULL
130/14:00:00 ATC Blackbody to 295K
130/16:00:00 ATC Blackbody to 300K
130/18:00:00 ATC Blackbody to 315K
130/20:00:00 ATC Blackbody to 270K
130/20:00?? Real-time Set Blackbody duty cycle to THIRD

Wednesday, May 10, 2000

131/10:09:22 ATC - OA15 SD/SDSM Open
131/13:27:07 ATC - OA16 SD/SDSM Screened
131/14:18:49 - 15:16:20 ATC OA23: SRCA Full Spatial
131/19:00:00 ATC Blackbody to 290K

Thursday, May 11, 2000

None

Friday, May 12, 2000

133/02:31:04 - 03:22:43 ATC OA22: SRCA Full Spectral Part 1 (Macro 18)
133/04:25:50 - 05:00:35 ATC OA22: SRCA Full Spectral Part 2 (Macro 19)
133/05:48:17 - 06:39:33 ATC OA22: SRCA Full Spectral Part 3 (Macro 20)
133/07:43:32 - 08:21:30 ATC OA22: SRCA Full Spectral Part 4 (Macro 21)
133/11:35:37 ATC - OA16 SD/SDSM Screened
133/14:30:00 - 16:30:00 ATC OA20 10W Radiometric cont radiance feedback w/o ND filter

This Week's Scheduled MODIS Activities Not Completed:

130/14:00?? Real-time Set Blackbody duty cycle to FULL
130/20:00?? Real-time Set Blackbody duty cycle to THIRD
(Not completed due to oversight. Rescheduled for next Tuesday.)

Upcoming MODIS Events:

Friday, May 12, 2000

133/20:30:00 – 22:30:00 ATC OA20 10W Radiometric cont constant current w/o ND filter
134/02:30:00 – 06:10:00 ATC OA21 1W Radiometric cont constant current for 2 orbits

Saturday, May 13, 2000

134/10:49:58 ATC Set SciAbnormal Flag
134/10:50:00 – 11:22:33 ATC OA25 1W Spatial w/ sector rotation
134/11:22:35 ATC Clear SciAbnormal Flag
134/15:49:58 ATC Set SciAbnormal Flag
134/15:50:00 – 16:22:33 ATC OA25 10W Spatial w/slit reticle and sector rotation
134/16:22:35 ATC Clear SciAbnormal Flag

Sunday, May 14, 2000

None

Monday, May 15, 2000

136/?? ATC - OA15 SD/SDSM Open
136/?? ATC - OA16 SD/SDSM Screened
136/12:00:00 ATC Blackbody to 270K

Tuesday, May 16, 2000

137/06:00:00 ATC Blackbody to 280K
137/10:00:00 ATC Blackbody to 285K
137/12:00:00 ATC Blackbody to 290K
137/14:00:00 ATC Blackbody to 295K
137/14:00?? Real-time Set Blackbody duty cycle to FULL
137/16:00:00 ATC Blackbody to 300K
137/18:00:00 ATC Blackbody to 315K
137/20:00:00 ATC Blackbody to 270K
137/20:00?? Real-time Set Blackbody duty cycle to THIRD

Wednesday, May 17, 2000

138/?? ATC OA16 SD/SDSM Screened
138/19:00:00 ATC Blackbody to 290K
138/19:10:00 Drag make-up maneuver

Thursday, May 18, 2000

None

Friday, May 18, 2000

140/?? ATC OA16 SD/SDSM Screened

Saturday, May 19, 2000

None

Sunday, May 20, 2000

None

Maneuvers:

Wednesday, May 17, 2000 19:10:00 - Drag make-up maneuver

MODIS Anomalies:

None.

General Instrument Comments:

MODIS is in Science Mode on the A-side with the SVD and NAD open.

MODIS Telemetry Trends:

Telemetry is nominal.

Non-MODIS Significant Events:

None.

Limited Life Item Status:

SRCA 10W Lamp #1: 161.9 of 500 hours

SRCA 10W Lamp #2: 131.0 of 500 hours

SRCA 10W Lamp #3: 140.2 of 500 hours

SRCA 10W Lamp #4: 61.5 of 500 hours

SRCA 1W Lamp #1: 550.7 of 4000 hours

SRCA 1W Lamp #2: 276.3 of 4000 hours

Solar Diffuser Door: 1343 of 3022 Movements

Nadir Aperture Door: 532 of 1316 Movements

Space View Door: 437 of 1316 Movements